## INIT

login (server)		login (client)
	_	("minkanana", ata)
	<	{"nickname": str}
(first player)		
("client_id": 1; "OK": true} -> first login request	>	
(already taken nickname)		
{"OK": false; "message": "Questo nickname è già stato usato"}		
(not first player)		
{"client id": int;	>	
"leaderCards": ["card1": int, "card2": int, "card3": int, "card4": int];		
"OK": true}		
	<	{"chosenLeaderCards": ["card1": int, "card2": int]}

first login (server)	first login (client)
	< {"numOfPlayers": int}
(<1    >4)	
{"OK": false; "message": "Numero inserito non valido"}	>
(1-4)	
{"leaderCards": ["card1": int, "card2": int, "card3": int, "card4": int];	>
"OK": true}	
	<pre>&lt; {"chosenLeaderCards": ["card1": int, "card2": int]}</pre>

## **TURN ACTION**

buy card(server)	buy card (client)
	< {"buyCard": {
	"deckRow": int;
	"deckColumn": int;
	"warehouse": boolean}}
(no available slots)	
{"OK": false; "message": "Non hai slot liberi"}	>
(not enough resources)	
{"OK": false; "message": "Non hai abbastanza risorse"}	>
(empty chosen deck)	
{"OK": false; "message": "Hai scelto un mazzetto vuoto"}	>
(on ok)	
{"OK": true; "bought_card": int}	
(more available slots)	
{"OK": true; "availableSlots": {"slot1": int, "slot2": int, "slot3": int}}	>
	< {"chosenSlot": int}
{"OK": true; "bought_card": int}	,
notifyAll {"buy_card_change": {	>
"client_id": int;	
"bought_card": int;	
"chosen_slot: int}}	
_ "	

```
use marble (server)
use marble (client)

<----- {"use_marble": Marble}</td>

(if WhiteMarble and 2 active WhiteConversionCard)
----->

{"whiteConversionCards": ["card1": int; "card2": int]}
----->

<----- {"chosenLeaderCard": int}</td>

notifyAll {"increased_faith_points": {"client_id": int, "faithPoints": 1}
----->

notifyAll {"increased_warehouse": {
----->

"client_id": int;
"resource": Resource;

"depot": int}}
```

```
switch (server)
                                                                                     switch (client)
                                                                             <---- {"switch": ["depot1": int; "depot2": int]}
(switch not possible)
{"OK": false; "message": "Non puoi effettuare questo scambio"}
(on ok)
{"OK": true; "switch depots": {
                                                                             ---->
                "new_resource1": Resource;
               "new_amount1": int;
               "new resource2": Resource;
                "new_amount2": int}}
notifyAll {"switch_depots": {
              "client id": int;
              "depot1": int;
              "new_resource1": Resource;
              "new amount1": int;
              "depot2": int;
              "new_resource2": Resource;
              "new_amount2": int}}
```

production power development card (server)		production power development card (client)
	<	{"activate_production": {
(not existing card)		
{"OK": false; "message": "Non possiedi alcuna carta in questo slot"}	>	
(not enough resources)		
{"OK": false; "message": "Non hai abbastanza risorse"}	>	
(on ok)		
{"OK": true}	>	

basic production power (server)	basic production power (client)
	<pre>&lt; {"activate_basic_production": {</pre>
<pre>(not enough resources) {"OK": false; "message": "Non hai abbastanza risorse"}</pre>	>
( OK . Taise, Thessage . Notifilal abbastaliza risorse )	/
(on ok)	
{"OK": true}	>

additional production power (server)	additional production power (client)
<	{"activate_additional_production": {
(cara is not active or is not an readment readment over early)	>
{"OK": false;	
"message": "Non puoi utilizzare il potere di produzione extra"}	
(on ok)	
{"OK": true}	>

end production power (server)		end production power (client)
	<	{"end produciton power": }
(no production power were casted)	`	( cha_production_power . )
{"OK": false; "message": "Non hai attivato alcun potere di produzione"}	>	
(on ok)		
\{"OK": true; "faithPointsAcquired": int\}	>	
{"resources_flow": {	>	
"resource": Resource;		
"warehouse_amount": int;		
"strongbox_amount": int}}		
<pre>notifyAll {"increased_faithPoints": {"client_id": int; "amount": int}}</pre>	>	
notifyAll {"new_resource_amounts: {	>	
"client_id": int;		
"resource": resource;		
"new_warehouse_amount": int;		
"new_strongbox_amount": int}}		

leader card activation (server)		leader card activation (client)
	<	{"leaderCard activation": int}
(card already active)		(10000000000000000000000000000000000000
{"OK": false; "message": "Hai già attivato questa carta"}	>	
(card previously discarded)		
{"OK": false; "message": "Hai scartato questa carta precedentemente"}	>	
(not enough resources)		
{"OK": false;	>	
"message": "Non hai abbastanza risorse per attivare questa carta"}		
(not enough cards)		
{"OK": false;	>	
"message": "Hai bisogno di più carte per attivare questa carta"}		
(on ok)		
{"OK": true; "leaderCard": int}	>	
notifyAll {"activated_leader_card": {	>	
"client_id": int; "leaderCard": int}}		

leader card discard (server)	leader card discard (client)
	< {"leaderCard_discard": int}
(card already active)	
{"OK": false; "message": "Hai attivato questa carta precedentemente"}	>
(card previously discarded)	
{"OK": false; "message": "Hai già scartato questa carta "}	>
(on ok)	
{"OK": true; "faithPoints": 1}	>
notifyAll {"discarded_leader_card": {	>
"client_id": int; "leaderCard": int}}	
<pre>notifyAll {"increased_faithPoints: {"client_id": int; "faithPoints": 1}</pre>	>

## **CLIENT REQUEST**

current player (server)	current player (client)
	< {"isMyTurn": }
{"isCurrentPlayer": boolean}	>

available switch (server)	available switch (client)
	< {"available_switch": }
(not available switches)	
{"OK": false; "message": "Non puoi effettuare scambi di deposito"}	>
(on ok)	
{"OK": true; "availableSwitches": {	>
"switch1": ["depot1": int; "depot2": int];	
"switch2": ["depot1": int; "depot2": int];	
"switch3": ["depot1": int; "depot2": int]}}	

```
available cards (server)
                                                                                         available cards (client)
                                                                                 <----- {"available cards": }
(not available cards)
{"OK": false; "message": "Non puoi comprare nessuna carta"}
                                                                                 ---->
(on ok)
{"OK": true; "availableCards": {
                    "card1": int;
                    "card2": int;
                    "card3": int;
                    "card4": int;
                   "card5": int}}
SERVER NOTIFY
buy card change (server)
                                                                                         buy card change (client)
```

```
{"buy_card_change": {
                                                                                ---->
          "client id": int;
           "bought_card": int;
           "chosen_slot: int}}
```

```
removed deck card (server)
                                                                                   removed deck card (client)
{"removed_deck_card": {
                                                                            ---->
          "row": int
           "column": int;
          "empty": boolean;
          "new card": int}}
```

```
decreased resource (server)
                                                                                     decreased resource (client)
{"decreased resource": {
           "client id": int;
           "resource": Resource;
           "amount": int;
           "warehouse": boolean}}
```

```
taken market marble (server)
                                                                                   taken market marble (client(
{"taken_market_marble": {"row": boolean; "index": int}}
                                                                           ---->
```

```
increased faith points
                                                                                   increased faith points
{"increased_faith_points": {"client_id": int, "faithPoints": int}
```

```
increased warehouse (server)
                                                                                     increased warehouse (client)
{"increased_warehouse": {
                                                                              ---->
           "client id": int;
           "resource": Resource;
           "depot": int}}
```

```
switch depots (server)
                                                                                     switch depots (client)
{"switch_depots": {
                                                                              ---->
              "client id": int;
              "depot1": int;
              "new_resource1": Resource;
               "new_amount1": int;
               "depot2": int;
               "new_resource2": Resource;
              "new amount2": int}}
new resource amount (server)
                                                                                     new resource amount (client)
{"new_resource_amount: {
                                                                              ---->
              "client_id": int;
              "resource": resource;
              "new_warehouse_amount": int;
              "new_strongbox_amount": int}}
activated leader card (server)
                                                                                     activated leader card (client)
{"activated_leader_card": {
                                                                              ---->
             "client_id": int; "leaderCard": int}}
discarded leader card (server)
                                                                                     discarded leader card (client)
{"discarded_leader_card": {
                                                                              ---->
             "client id": int; "leaderCard": int}}
end game (server)
                                                                                     end game (client)
{"end_game": {"position": int; "victoryPoints": int}
```

connection lost (server)

{"connection\_lost": {"client\_id": int}} -> end game

connection lost (client)

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